



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
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C45

Job Sheet 198388



Part No: C45

Job Qty: 1 pcs

Part Name: C-Series Remote Hook 4,500 lbs Lift Capacity



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 7/26/19

Job Tracking No:

Due Date: 9/27/19

Created By: Jennifer Renwick

Type: Stock

Description: SIOP

Note: C45 REV.C IPP REV:A 18.01.29 NEW ISSUE DD VERF:DP/IPP Rev. B 19.05.13 drawing revision DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	External Load - Issue SN	1 pcs	9/27/19	9/27/19	0.00	3.33	External Load - 1		MCHCZ
							External Load - 2		
							External Load - 3		
110	External Load - 2 - B4B	1 pcs	9/27/19	9/27/19	0.00	3.33	External Load - 1 - B4B		AP 29/9/19 sk
							External Load - 2 - B4B		
							External Load - 3 - B4B		
120	QC 5	1 pcs	9/27/19	9/27/19	0.00	0.00	QC 5 - 10		
							QC 5 - 12		
							QC 5 - 17		
							QC 5 - 18		
							QC 5 - 19		
							QC 5 - 22		
							QC 5 - 24		
							QC 5 - 3		
							QC 5 - 43		
							QC 5 - 49		
							QC 5 - 51		
							QC 5 - 58		SMB 19/8/19
							QC 5 - 68		
							QC 5 - 9		
							QC 5 - 50		
							QC 5 - 30		
							QC 5 - 40		
							QC 5 - 61		
							QC 5 - 81		
130	Packaging 3-2 - Stock - B4B	1 pcs	9/27/19	9/27/19	0.00	0.00	Packaging 3 - 1 - B4B		
							Packaging 3 - 2 - B4B		
							Packaging 3 - 3 - B4B		
							Packaging 3 - 4 - B4B		
							Packaging 3 - 5 - B4B		
							Packaging 3 - 6 - B4B		
							Packaging 3 - 7 - B4B		
							Packaging 3 - 8 - B4B		SMB 19/8/19
							Packaging 3 - 9 - B4B		
							Packaging 3 - 10 - B4B		
							Packaging 3 - 11 - B4B		
							Packaging 3 - 12 - B4B		
							Packaging 3 - 13 - B4B		
							Packaging 3 - 14 - B4B		
							Packaging 3 - 15 - B4B		
							Packaging 3 - 16 - B4B		



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Container No: S206868



Part: C45

Job No: 198388

Serial No/Batch: S206868

Revision: C

Inspector:

Exp Date:

Instructions:

Date: 08/19/19

				Packaging 3 - 17 - B4B	
				Packaging 3 - 18 - B4B	
				Packaging 3 - 19 - B4B	
				Packaging 3 - 20 - B4B	
				Packaging 3 - 21 - B4B	
				Packaging 3 - 22 - B4B	
				Packaging 3 - 23 - B4B	
				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
140	QC 21 - SA	1 pcs	9/27/19	0.00 0.00	QC 21 - SA - 21
					QC 21 - SA - 70
					QC 21 - SA - 53

Part Op 100 - Issue S/N
 Descriptions: 110 - 1- PICK C45-2-1 AND LASER ENGRAVE AS PER DWG . SEE NOTE 3 AND 4 ON SHEET 3. 2- ASSEMBLE AS PER DWG 3- PERFORM ALL NECESSARY TEST USING FAI TEST SHEET.
 120 - (QC5- Inspect part completeness to step on W/O)
 130 - Identify as per dwg & Stock Location: _____
 140 - (QC21- Final Inspection - Work Order Release)

DAS
70
9-89

AUG 23 2019

DAS
77
9-89

Loctite 242 (5186572)

Loctite 620 (5194792)

Saf-T-gel (M128063)

Aeroshell grease No.7 (5138964)

Job BOM					
Part / Item	Component Name	Quantity	Operation	Container	
188-FPSS-1/4-20-3/8	Set Screw	2 Ea (2 ea)	100-External Load - Issue SN	5048557-1	
01121-734A5	3 Conductor 14 AWG,	1 ft (1 ea)	110-External Load - 2 - B4B	5177416	
188-FSCS-1032-5/8	Flat socket cap Screw	4 Ea (4 ea)	110-External Load - 2 - B4B	5199362	
32448	16-14 AWG Knife Connector	2 Ea (2 ea)	110-External Load - 2 - B4B	5041618	
7856K75	Heat Shrink Tubing Color Black	.5000 ft (.5 ea)	110-External Load - 2 - B4B	5190246	
AN4-24A	Bolt	2 Ea (2 ea)	110-External Load - 2 - B4B	5196193-1	
AN5-21A	Bolt	4 Ea (4 ea)	110-External Load - 2 - B4B	5097081-1	
C10-41	Strain Relief Connector	1 Ea (1 ea)	110-External Load - 2 - B4B	5083917	
C45-1-1	Manual Knob Release	1 pcs (1 ea)	110-External Load - 2 - B4B	5197844	
C45-10-1	Lock Spring Pin	1 Ea (1 ea)	110-External Load - 2 - B4B	5040658	
C45-10-2	Lock Spring	1 pcs (1 ea)	110-External Load - 2 - B4B	5177827	
C45-11-1	Sideplate, Solenoid Side	1 pcs (1 ea)	110-External Load - 2 - B4B	5164685	
C45-11-2	Locating Pin	2 Ea (2 ea)	110-External Load - 2 - B4B	5199359	
C45-12-1	Lock Bushing	2 pcs (2 ea)	110-External Load - 2 - B4B	5179711	
C45-12-2	Lock Shaft	1 pcs (1 ea)	110-External Load - 2 - B4B	5163665	
C45-12-3	Lock	1 pcs (1 ea)	110-External Load - 2 - B4B	5193434	* 5182363
C45-12-4	Lock Roller	1 pcs (1 ea)	110-External Load - 2 - B4B	5178364	
C45-12-5	Lock Roller Pin	1 pcs (1 ea)	110-External Load - 2 - B4B	5093171	
C45-12-6	Retaining Ring	2 Ea (2 ea)	110-External Load - 2 - B4B	5029303	*
C45-13-1	Keeper Bushing	2 pcs (2 ea)	110-External Load - 2 - B4B	5193422	
C45-13-2	Teflon Keeper, Spacer	2 Ea (2 ea)	110-External Load - 2 - B4B	5027246	
C45-13-3	Keeper Shaft	1 pcs (1 ea)	110-External Load - 2 - B4B	5170186	
C45-13-4	Keeper	1 pcs (1 ea)	110-External Load - 2 - B4B	5170614	
C45-13-5	Keeper Spring	1 pcs (1 ea)	110-External Load - 2 - B4B	5172439	
C45-2-1	Sideplate - MRK	1 pcs (1 ea)	110-External Load - 2 - B4B	5164654	
C45-3-1	Radial Bearing	2 Ea (2 ea)	110-External Load - 2 - B4B	5097909	
C45-3-10	Latch Shaft	1 pcs (1 ea)	110-External Load - 2 - B4B	5145232	* 183706
C45-3-11	Actuator	1 pcs (1 ea)	110-External Load - 2 - B4B	5165546	
C45-3-12	Latch Roller Bearing	1 Ea (1 ea)	110-External Load - 2 - B4B	5097903	
C45-3-2	Latch Roller Pin	1 pcs (1 ea)	110-External Load - 2 - B4B	5029316	*
C45-3-2-1	Snap Ring	2 Ea (2 ea)	110-External Load - 2 - B4B	5066606	
C45-3-3	Latch Roller	1 pcs (1 ea)	110-External Load - 2 - B4B	5127763	
C45-3-4	Pin	2 pcs (2 ea)	110-External Load - 2 - B4B	5133668	
C45-3-4-1	Retaining Ring	4 Ea (4 ea)	110-External Load - 2 - B4B	5114803	
C45-3-5	Teflon Spacer	2 Ea (2 ea)	110-External Load - 2 - B4B	5097745	
C45-3-6	Latch	1 pcs (1 ea)	110-External Load - 2 - B4B	5165726	
C45-3-7	Link	1 pcs (1 ea)	110-External Load - 2 - B4B	5029322	* 507C197
C45-3-8A	Actuator Shaft Bushing	1 pcs (1 ea)	110-External Load - 2 - B4B	5078801	
C45-3-8B	Actuator Shaft Bushing	1 pcs (1 ea)	110-External Load - 2 - B4B	5182358	
C45-3-9	Lever Spring	1 pcs (1 ea)	110-External Load - 2 - B4B	5190299	
C45-4-1	Trunnion Bushing	2 pcs (2 ea)	110-External Load - 2 - B4B	5192908	
C45-4-4A	C45 Load Beam Assembly	1 pcs (1 ea)	110-External Load - 2 - B4B	5195984	
C45-4-5	Loadbeam Spacer	1 pcs (1 ea)	110-External Load - 2 - B4B	5163562	
C45-5-1	Lever Stop Pin	1 Ea (1 ea)	110-External Load - 2 - B4B	5089113	
C45-5-2	Lever Stop	1 pcs (1 ea)	110-External Load - 2 - B4B	5029330	*
C45-7-1	LOADBEAM BUMPER	1 pcs (1 ea)	110-External Load - 2 - B4B	5156421	
C45-7-2	Lock Bumper	2 pcs (2 ea)	110-External Load - 2 - B4B	5179118	
C45-8-1-2	Solenoid Nut	2 pcs (2 ea)	110-External Load - 2 - B4B	5163995	
C45-8-2	Solenoid	1 pcs (1 ea)	110-External Load - 2 - B4B	5201006	
C45-8-4	Solenoid Cover Gasket	1 pcs (1 ea)	110-External Load - 2 - B4B	5199513	
C45-8-5	Solenoid Cover	1 pcs (1 ea)	110-External Load - 2 - B4B	5175959	
C45-9-1	Clock Spring Cover	1 pcs (1 ea)	110-External Load - 2 - B4B	5167968	
C45-9-2	Clock Spring	1 pcs (1 ea)	110-External Load - 2 - B4B	5107946	
EL-PLUG-M	3-Prong Male Spade Plug	1 Ea (1 ea)	110-External Load - 2 - B4B	5157401	
MS21044N5	Nut	4 Ea (4 ea)	110-External Load - 2 - B4B	5192486	④
MS27039-4-08	Screw	1 Ea (1 ea)	110-External Load - 2 - B4B	5039330	
NAS1149F0463P	Washer (AN960-416)	3 Ea (3 ea)	110-External Load - 2 - B4B	5097088-1	
NAS1149F0563P	Washer (AN960-516)	8 Ea (8 ea)	110-External Load - 2 - B4B	5184942	

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
100-External Load - Issue SN	188-FPSS-1/4-20-3/8	2	40	0
	01121-734A5	1	249	0
110-External Load - 2 - B4B	188-FSCS-1032-5/8	4	164	0
	32448	2	67	0
	7856K75	1	42	0
	AN4-24A	2	80	0
	AN5-21A	4	282	0
	C10-41	1	8	0
	C45-1-1	1	17	0
	C45-10-1	1	154	0
	C45-10-2	1	20	0
	C45-11-1	1	16	0
	C45-11-2	2	42	0
	C45-12-1	2	40	0
	C45-12-2	1	10	0
	C45-12-3	1	19	0
	C45-12-4	1	57	0
	C45-12-5	1	32	0
	C45-12-6	2	98	0
	C45-13-1	2	44	0
	C45-13-2	2	40	0
	C45-13-3	1	20	0
	C45-13-4	1	18	0
	C45-13-5	1	93	0
	C45-2-1	1	15	0
	C45-3-1	2	99	0
	C45-3-10	1	20	0
	C45-3-11	1	21	0
	C45-3-12	1	66	0
	C45-3-2	1	40	0
	C45-3-2-1	2	73	0
	C45-3-3	1	13	0
	C45-3-4	2	30	0
	C45-3-4-1	4	79	0
	C45-3-5	2	83	0
	C45-3-6	1	12	0
	C45-3-7	1	0	0
	C45-3-8A	1	11	0
	C45-3-8B	1	27	0
	C45-3-9	1	115	0
	C45-4-1	2	31	0
	C45-4-4A	1	0	0
	C45-4-5	1	7	0
	C45-5-1	1	30	0
	C45-5-2	1	29	0
	C45-7-1	1	18	0
	C45-7-2	2	48	0
	C45-8-1-2	2	56	0
	C45-8-2	1	4	0
	C45-8-4	1	43	0
	C45-8-5	1	33	0
	C45-9-1	1	12	0
	C45-9-2	1	33	0
	EL-PLUG-M	1	39	0
	MS21044N5	4	205	0
	MS27039-4-08	1	203	0
	NAS1149F0463P	3	134	0
	NAS1149F0563P	8	322	0
Part Specifications				
Specifications could not be found.				

Plex 7/26/19 7:53 AM Dart.Renwick.Jennifer



Remote Cargo Hook Test Form

C45

Work Order 198388

Customer _____

Serial Number 5206868

Date 2019-8-21

# of Releases	Load (Lbs.)	Release Method	Remarks	Result	Pass/fail
1	11,250	Static Hold	Hold for two Minutes and reduce load to zero	N/A	Pass
10	2,250	Electircal, 25 volts	No "hang ups" permitted	N/A	Pass
2	4,500	Electircal, 22 volts	Current shall not exceed 12.4A	9.0 A	Pass
2	3,500	Electircal, 22 volts	Current shall not exceed 12.4A	9.0 A	Pass
2	2,500	Electircal, 22 volts	Current shall not exceed 12.4A	8.9 A	Pass
2	1,500	Electircal, 22 volts	Current shall not exceed 12.4A	8.8 A	Pass
2	500	Electircal, 22 volts	Current shall not exceed 12.4A	8.2 A	Pass
1	4,500	Electircal, 20 volts	Current shall not exceed 11.3A	7.4 A	Pass
1	4,500	Electircal, 28 volts	Current shall not exceed 15.8A	10.7 A	Pass
1	4,500	Manual		N/A	Pass
1	4,500	Impact Test	Impact shackle 10 times, shall not release	N/A	Pass
1	N/A	Solenoid Ohms	Shall not exceed 1.7-2.0 Ohms	20 Ohms	Pass
1	N/A	Electircal Continuity	Across both wires	N/A	Pass

Test Conducted By: Michel Lalonde

Technician

Signature: Sylvain Boyer

QC 5 Small FAB / QA

Submit



Remote Cargo Hook Test Form

C45

Work Order 198388

Customer _____

Serial Number S206868

Date 2019-8-21

# of Releases	Load (Lbs.)	Release Method	Remarks	Result	Pass/fail
1	11,250	Static Hold	Hold for two Minutes and reduce load to zero	N/A	Pass
10	2,250	Electircal, 25 volts	No "hang ups" permitted	N/A	Pass
2	4,500	Electircal, 22 volts	Current shall not exceed 12.4A	9.0 A	Pass
2	3,500	Electircal, 22 volts	Current shall not exceed 12.4A	9.0 A	Pass
2	2,500	Electircal, 22 volts	Current shall not exceed 12.4A	8.9 A	Pass
2	1,500	Electircal, 22 volts	Current shall not exceed 12.4A	8.8 A	Pass
2	500	Electircal, 22 volts	Current shall not exceed 12.4A	8.2 A	Pass
1	4,500	Electircal, 20 volts	Current shall not exceed 11.3A	7.4 A	Pass
1	4,500	Electircal, 28 volts	Current shall not exceed 15.8A	10.7 A	Pass
1	4,500	Manual		N/A	Pass
1	4,500	Impact Test	Impact shackle 10 times, shall not release	N/A	Pass
1	N/A	Solenoid Ohms	Shall not exceed 1.7-2.0 Ohms	2.0 Ohms	Pass
1	N/A	Electircal Continuity	Across both wires	N/A	Pass

Test Conducted By: Michel Lelonde
Technician

Signature: Sylvain Boyer
QC 5 Small FAB / QA

Submit